

COUN 609: Introduction to Statistics for Counseling and Human Service Research

Course Syllabus: Fall 2020 Web-based, Synchronous on some Tuesdays at 8:15pm via Zoom

INSTRUCTOR INFORMATION

Instructor: Michael K. Schmit, PhD, LPC

Office Location: Zoom

Office Hours: By appointment only

University Email Address: michael.schmit@tamuc.edu

Preferred Form of Communication: email

Communication Response Time: 24-48 hours, Monday–Friday

Graduate Co-Instructor (if available): n/a

Graduate Co-Instructor University Email Address (if available): n/a

COURSE INFORMATION Materials – Textbooks, Readings, Supplementary Readings

Required Textbook

Field, A. (2018). Discovering Statistics Using IBM SPSS Statistics (5th ed.). Sage.

American Psychological Association. (2019). *Publication manual of the American Psychological Association* (7th ed.). Author.

Recommended Textbook (under consideration for future adoption)

Hancock, G. R., Stapleton, L. M., & Mueller, R. O. (2019). *The reviewer's guide to quantitative methods in the social sciences* (2nd ed.). Routledge.

Note. This course utilizes D2L as it Learning Management System

Required Supplemental Readings

Balkin, R. S., & C. J. Sheperis (2011). Evaluating and reporting statistical power in counseling research. *Journal of Counseling & Development*, 89(3), 228-272. https://doi.org/10.1002/j.1556-6678.2011.tb00088.x

Cohen, J. (1992). A power primer. *Psychological Bulletin*, *112*(1), 155-159. https://doi.org/10.1037//0033-2909.112.1.155

Hays, D. G. (2011). Infusing qualitative traditions in counseling research designs. Journal of



Counseling & Development, 89(3), 288-295. https://doi.org/10.1002/j.1556-6678.2011.tb00091.x

- Trusty, J. (2011). Quantitative articles: Developing studies for publication in counseling journals. *Journal of Counseling & Development*, 89(3), 261-267. https://doi.org/10.1002/j.1556-6678.2011.tb00086.x
- Watson, J. C., Lenz, A. S., Schmit, M. K., & Schmit, E. L. (2016). Calculating and reporting estimates of effect size in counseling outcome research. *Counseling Outcome Research & Evaluation*, 7(2), 111-123. https://doi.org/10.1177/2150137816660584
- Wester, K. L., & Borders, L. D. (2014). Research competencies in counseling: A delphi study. *Journal of Counseling & Development, 92*(4), 447-458. https://doi.org/10.1002/j.1556-6676.2014.00171.x

Required Computer Software

The Statistical Package for the Social Sciences (SPSS; Version 24 or higher) computer software—PREMIUM GradPack.

Note: SPSS Statistical software (version 24 or higher is recommended). About the cheapest place you can purchase and download a copy is from http://www.hearne.software/Home. Other sources include http://www.hearne.software/Home. Other sources include http://www.onthehub.com/spss/ and http://www.onthehub.c

COURSE DESCRIPTION

Catalogue Description of the Course

COUN 609. Introduction to Statistics for Counseling and Human Service Research
A doctoral-level introductory statistics course, emphasizing applications to counseling and human service research. The major focus will involve an examination of basic statistical procedures: descriptive statistics, hypothesis testing, and univariate inferential statistics. Usage of a computer-based statistical software tool (Statistical Package for the Social Sciences) will be emphasized. Meets requirements for a Level II research tool course. Prerequisite: Level I research tool or equivalent or permission from the course instructor.

General Course Information

Introduction to Statistics for Counseling and Human Service Research is intended to provide doctoral-level students with training in introductory statistical techniques and is approved by the Graduate School as a Level II research tool. The emphasis in this course will be on understanding basic statistical concepts and applying and interpreting univariate tests of statistical inference applicable to counseling and human service research. Content will include,



but not be limited to, descriptive statistics, sample distributions, null hypothesis significance testing, effect size estimates and confidence intervals, statistical power, model assumptions, data screening and cleaning, visual representation and inspection of data, and univariate inferential statistics. The Statistical Package for the Social Sciences (SPSS; version 24 or higher) will be employed to assist in the analysis of data for this course. Students should have access to a computer, SPSS software, and the Internet. Access is available at the Metroplex Center and on the Commerce campus in certain computer labs.

Doctoral Student Learning Outcomes

2016 CACREP Standards Addressed in COUN 609

Doctoral Standard	Learning Activity	Assignment	Assessment Rubric	Benchmark
6.B.4.a. research designs appropriate to quantitative and qualitative research questions	 Lecture (weeks 1, 10-14) Reading (Field, 2018 [Chapters 1, 8-10, 12, & 15]; Hays, 2011; Trusty, 2011) Website (http://www.balkinresearchmethods.com) In-class demonstrations (weeks 10-14) Class discussion (weeks 1, 10-14) 	1. Knowledge Quizzes 1, 8, 9, & 10 2. In-class Presentation	1. n/a 2. In-class Presentation rubric	1.≥80% will score ≥ 80% on knowledge quizzes 1, 8, 9, & 10 2.≥80% of average rubric scores will either meet (2) or exceed (3) expectation
6.B.4.b. univariate and multivariate research designs and data analysis methods	 Lectures (weeks 10-14) Readings (Field, 2018 [Chapters 8-10, 12, & 15]; Hays, 2011; Trusty, 2011) Website (http://www.balkinresearchmethods.com) In-class demonstrations (weeks 10-14) Class discussion (weeks 10-14) 	1. Knowledge Quizzes 8, 9, & 10 2. Application Assignment 2 3. In-class Presentation	1. n/a 2. n/a 3. In-class Presentation rubric	1. ≥ 80% will score ≥ 80% on knowledge quizzes 8, 9, & 10 2. ≥ 80% will score ≥ 80% on application assignment 2 3. ≥ 80% of average rubric scores will either meet (2) or exceed (3) expectation

Content Areas include, but are not limited to, the following:

- I. Descriptive Statistics
 - a. Central Tendency: frequency, mean, median, and mode
 - b. Dispersion: range, quartiles, standard deviation, and variance
 - c. Z-scores
- II. Null Hypothesis Significance Testing
 - a. Sample distribution
 - b. *p*-value
 - c. Type 1 and Type II errors
 - d. Null and alternative hypothesis
- III. Basic Statistical Concepts and Procedures
 - a. Model assumptions



- b. Effect size estimates
- c. Confidence intervals
- d. Statistical power
- e. Visual representation and inspection of data
- f. Data cleaning
- IV. Univariate Inferential Statistics
 - a. research design and research questions
 - a. t-test
 - b. dependent t-test
 - c. One-way ANOVA
 - d. Repeated Measures ANOVA
 - e. Correlation: Bivariate and simple regression

COURSE REQUIREMENTS

Minimal Technical Skills Needed

In this class, you will utilize the Learning Management System (LMS) entitled D2L for portions of instructional and learning methods, submitting assignments, participating in online discussions, and completing quizzes. You will need to utilize other technologies such as SPSS, Microsoft Word, PowerPoint, etc. If you have issues with this system, it is your responsibility to contact the help desk immediately.

Instructional Methods

This course consists of lecture and didactic learning methods, small group discussions, and inclass assignments and demonstrations using SPSS, coupled with experiential learning and practical application. Be aware that a significant part of this class requires you to learn and become proficient with using SPSS. When we are not meeting face to face, you will be expected to participate and complete all online tasks via D2L. In addition, small lecture, discussion activities, and workshops may be utilized during this course.

Student Responsibilities or Tips for Success in the Course

As a student in this course, you are responsible for the active learning process. Expectations of this course include the following:

- 1. You are expected to display professionalism at all times. Be respectful of your professor and peers. Be open to feedback, as you will receive this throughout the program.
- 2. Prepare for classes. Complete any and all readings prior to class time.
- 3. Complete all assignments by the deadline.
- 4. Adhere to the university student code of conduct.
- 5. Participate. During face-to-face classes, you are expected to actively participate in all activities and discussion. In the online format, you are expected to participate in all online discussions/activities. This is crucial to your learning.
- 6. All writing assignments must be done according to APA 6th edition standards.



- 7. Regularly check your University email. My suggestion is to check this at least once a day as your instructors and others from the department and University may contact you.
- 8. Begin your readings ASAP. Sometimes it may take more than one attempt to digest the material.
- 9. Deadlines are the last possible moment something is due—not the first moment to start. Work ahead. I realize this may not always be possible; however, when you can, do so.
- 10. Be open to the process. This degree takes time, work, effort, and growth.

Assignments/Assessments

- 1. Ten (10) Knowledge Quizzes (100 points total; 10 points each quiz): Throughout the semester, 10 knowledge quizzes, starting at week 2 will afford students the opportunity to test their knowledge and skill on various research and statistical concepts learned from course readings and class lectures discussed. Although quizzes are not cumulative in nature, information learned in previous weeks assist student in responding to the quiz questions. A good rule of thumb is to be familiar with the information from the week prior to the date of the quiz as well as the information that will be discussed on the week of the quiz. Knowledge Quiz questions will be presented in multiple choice, true/false, and short answer formats. Quizzes will be released in D2L on the Tuesday of their respective week and due on the Sunday @ 11:59pm of that particular week (see COURSE OUTLINE/CALENDAR on last page). A missed quiz due to being absent or late to class, unless previous accommodations have been arranged, may result in a forfeit to take the guiz. The main purpose of knowledge guizzes is to ensure that content is reviewed prior to class so that class time is spent solidify your understanding and enhancing practical application. Thus, please invest time and energy into the course readings prior to arriving to class.
- 2. Two (2) Application Assignments (100 points total; 50 points each application assignment): Two application assignments will be distributed in D2L throughout the semester (weeks 7 and 12). The purpose of application assignments is to evaluate your knowledge and skill regarding research design and statistical concepts, beyond quizzes, and develop your application skills of those research design and statistics concepts. Application assignments may require you to critically evaluate a research scenario; identifying various statistical procedures; developing your own research questions and scenario as it relates to the particular design; complete tasks in SPSS; and provide practical implications for counseling/human service. Both application assignments will be distributed two weeks prior to its due date. Feel free to use your classmates as a resource, but your work is your own and must be submitted independently in D2L. Submission of application assignments should be completed as a Word document following APA 7th edition guidelines (unless notified otherwise). The goal of application assignments is to demonstrate your knowledge of various basic statistical procedures and concepts discussed in this course.



Note. You may be asked to develop a result section write-up suitable for publication and/or include a PDF version of SPSS output as part of your response to application assignment questions.

3. **In-Class Presentation (100 points):** Along with a partner, you will choose a statistic covered in class (i.e., t-test, dependent t-test, one-way ANOVA, repeated measures ANOVA, bivariate correlation, simple regression; content starts at week 9) and demonstrate it to your peers through an 20-25 minute oral and visual presentation. One of the highest forms of learning is the ability to teach others.

This in-class presentation should include the following elements: (a) detailed overview of the chosen statistic; (b) research scenario, research design, and research question; (c) dataset fitting the constructed scenario; (d) demonstration of using the statistical procedure in SPSS, to include appropriate model assumptions; and (e) explanation of results and exploration of practical implications.

The goal of this presentation is to demonstrate your knowledge and skill in research and statistics, emphasizing, in part, CACREP standards 6.B.4.a. and 6.B.4.b., as well as evaluate your ability to conceptualize and apply research findings to fields of counseling and human service.

In-Class Presentation Rubric 6.B.4.a. and 6.B.4.b.

	1 – Does not meet	2 – Meets Expectation	3 – Exceeds Expectation
	Expectation	(16-17.9 points)	(18-20 points)
	(0-15.9 points)		
Detail overview	Description of statistic	Description of statistic	Exceptional description of
of chosen statistic	was insufficient or	sufficient with only	statistic with no missing
(20 points)	incorrect, lacking depth,	containing one or two	elements (description
	detail, and accuracy	incorrect elements (some	provided reached beyond
	(description provided	of the description	information from textbook);
	did not reach beyond	provided reached beyond	examples provided were
	information from	information from	accurate and communicated
	textbook); no examples	textbook); description had	comprehension; information
	were provided to	depth and detail but one or	had depth and detail; clear
	evidence	two elements	evidence of knowledge
	comprehension; no	missing/incorrect;	about statistic was
	evidence of knowledge	evidence of knowledge	communicated/
	about chosen statistic	about statistic was	demonstrated/evidenced
	was	communicated/ evidenced	throughout the presentation;
	communicated/evidence	throughout the	representative of doctoral
	d throughout the	presentation;	level work
	presentation; not	representative of doctoral	
	representative of	level work	
	doctoral level work		
Research	Research scenario,	Research scenario,	Research scenario, research
scenario, research	research design, and	research design, and	design, and research



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design, and	research question were	research question were	question were
research questions	not addressed/	addressed/identified and	addressed/identified with
(20 points)	identified, poorly	had depth and detail but	attention to detail and depth
	addressed, or lack depth and detail; no rationale	missing one or two key elements; rationale	with no missing key elements; clear rationale
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	provided connecting scenario, research	provided connecting scenario, research design,	provided connecting scenario, research design,
	design, and/or research	and/or research questions	and/or research questions to
	questions to one	to one another but missing	one another with no missing
	another; no evidence of	one or two key elements;	elements; clear evidence of
	comprehending	some evidence of	comprehending particular
	particular research	comprehending particular	research designs with
	designs with	research designs with	constructing types of
	constructing types of	constructing types of	research questions;
	research questions; not	research questions;	representative of doctoral
	representative of	representative of doctoral	level work
	doctoral level work	level work	
Dataset fitting the	Dataset was	Dataset was appropriately	Dataset was detailed, well-
constructed	inappropriately	designed but missing one	designed with no missing
scenario	designed/missing	or two key elements;	detail; dataset clearly
(20 points)	information or	dataset aligns with the	aligned with the scenario,
, ,	misaligns with the	scenario, research design,	research design, and
	scenario, research	and research question but	research question with no
	design, and/or research	missing one to two key	missing detail; dataset
	question; dataset omits	elements; dataset attends	clearly attended to
	considerations of	to considerations of	considerations of sample
	sample size, statistical	sample size, statistical	size, statistical power, and
	power, and effect size;	power, and effect size; not	effect size; not
	not representative of	representative of doctoral	representative of doctoral
	doctoral level work	level work	level work
Demonstration of	Demonstration was	Demonstration was	Demonstration was properly
using the	poorly executed,	properly executed but	executed with great
statistical	misleading, or	missing one or two key	precision and accuracy with
procedure in	incorrect;	elements; demonstration	no missing detail;
SPSS, to include	demonstration was not	was relevant to the chosen	demonstration was highly
appropriate model	relevant to the chosen	statistic, design, and	relevant to the chosen
assumptions (20 points)	statistic, design, and research question;	research question but missing one or two key	statistic, design, and research question;
(20 points)	demonstration lacked		demonstration had
	depth and detail; no	elements; demonstration had depth and detail but	exceptional depth and detail
	evidence of knowledge	missing one or two key	with no missing detail; clear
	about the statistic was	elements; evidence of	evidence of knowledge
	communicated/	knowledge about the	statistic was
	evidenced during SPSS	statistic was	communicated/evidenced
	demonstration; not	communicated/ evidenced	during demonstration;
	representative of	during demonstration;	representative of doctoral
	doctoral level work	representative of doctoral	level work
		level work	
	1 – Does not meet	2 – Meets Expectation	3 – Exceeds Expectation
	Expectation	(8-9.9 points)	(9-10 points)
	(0-7.9 points)	<u> </u>	· · ·
Explanation of	No communication of	Communication of results	Communication of results
results and	results or results were	was evident and	was clearly evident and



exploration of practical implications (10 points)	irrelevant/incorrect with chosen statistic; absence of a practical discussion of findings or practical discussion was highly underdeveloped; no practical applications to counseling or human service shared (implications); not representative of doctoral level work	corresponded to chosen statistic but missing one or two key elements; practical discussion of findings was evident but missing one or two key elements; practical applications to counseling or human service (implications) was evident but missing one or two key elements; representative of doctoral level work	corresponded to chosen statistic with no missing detail; practical discussion of findings was clearly evident with no missing detail; practical applications to counseling or human service (implications) was clearly evident with no missing detail; representative of doctoral level work
Presentation and Presenter Qualities (10 points)	Approval of topic not confirmed; presentation occurred outside the allotted time frame; information appeared disorganized/ disjointed; presenters appeared unrehearsed and presentation was unpolished; presentation quality was inappropriate for doctoral level work; presenters were not invested or enthusiastic about the topic or presentation (no evidence during presentation); less than 3 scholarly sources were utilized	Approval of topic was confirmed; presentation occurred within the allotted time frame. Information appeared fairly organized, but missed one or two key elements; presenters appeared rehearsed at times, but missed one or two key elements; presentation quality was acceptable for doctoral level work; presenters seemed invested and euthanistic about the topic and throughout the presentation about 75% of the time; 5-8 scholarly sources were utilized	Approval of topic was confirmed; presentation occurred within the allotted time frame ; information was well-organized with no missing detail; presenters appeared rehearsed; presentation material(s) were aesthetically pleasing; presentation quality was appropriate for doctoral level work; presenters seemed invested and euthanistic about the topic and throughout the presentation about 90% of the time; 9 or more scholarly sources were utilized

GRADING

Final grades in this course will be based on the following scale:

90%-100% A 80%-89% B 70%-79% C 60%-69% D < 59% F

Assignment/AssessmentPoint ValueApplication Assignments100Knowledge Quizzes100



In-class Presentation

100

Total points possible = 300. Your Final Grade is determined adding the point values earned from each assignment and dividing by 300. The resulting value is multiplied by 100 to yield a percentage. For example: $(240 \text{ [points earned]}/300) \times 100 = 80\%$

Assignments are due on the day noted in the syllabus. Unless noted otherwise, all assignments are due at the beginning of the class period. Late assignments will have 10% deduction per day late from the final score.

TECHNOLOGY REQUIREMENTS

Browser support

D2L is committed to performing key application testing when new browser versions are released. New and updated functionality is also tested against the latest version of supported browsers. However, due to the frequency of some browser releases, D2L cannot guarantee that each browser version will perform as expected. If you encounter any issues with any of the browser versions listed in the tables below, contact D2L Support, who will determine the best course of action for resolution. Reported issues are prioritized by supported browsers and then maintenance browsers.

Supported browsers are the latest or most recent browser versions that are tested against new versions of D2L products. Customers can report problems and receive support for issues. For an optimal experience, D2L recommends using supported browsers with D2L products.

Maintenance browsers are older browser versions that are not tested extensively against new versions of D2L products. Customers can still report problems and receive support for critical issues; however, D2L does not guarantee all issues will be addressed. A maintenance browser becomes officially unsupported after one year.

Note the following:

- Ensure that your browser has JavaScript and Cookies enabled.
- For desktop systems, you must have Adobe Flash Player 10.1 or greater.
- The Brightspace Support features are now optimized for production environments when using the Google Chrome browser, Apple Safari browser, Microsoft Edge browser, Microsoft Internet Explorer browser, and Mozilla Firefox browsers.

Desktop Support

Browser	Supported Browser Version(s)	Maintenance Browser Version(s)
Microsoft® Edge	Latest	N/A



Microsoft® Internet Explorer®	N/A	11
Mozilla® Firefox®	Latest, ESR	N/A
Google® Chrome TM	Latest	N/A
Apple® Safari®	Latest	N/A

Tablet and Mobile Support

Device	Operating System	Browser	Supported Browser Version(s)
Android TM	Android 4.4+	Chrome	Latest
Apple	iOS®	Safari, Chrome	The current major version of iOS (the latest minor or point release of that major version) and the previous major version of iOS (the latest minor or point release of that major version). For example, as of June 7, 2017, D2Lsupports iOS 10.3.2 and iOS 9.3.5, but not iOS 10.2.1, 9.0.2, or any other version. Chrome: Latest version for the iOS browser.
Windows	Windows 10	Edge, Chrome, Firefox	Latest of all browsers, and Firefox ESR.

- You will need regular access to a computer with a broadband Internet connection. The minimum computer requirements are:
 - o 512 MB of RAM, 1 GB or more preferred
 - o Broadband connection required courses are heavily video intensive
 - Video display capable of high-color 16-bit display 1024 x 768 or higher resolution
- For YouSeeU Sync Meeting sessions <u>8 Mbps</u> is required. Additional system requirements found here: https://support.youseeu.com/hc/en-us/articles/115007031107-Basic-System-Requirements



- You must have a:
 - o Sound card, which is usually integrated into your desktop or laptop computer
 - o Speakers or headphones.
 - *For courses utilizing video-conferencing tools and/or an online proctoring solution, a webcam and microphone are required.
- Both versions of Java (32 bit and 64 bit) must be installed and up to date on your machine. At a minimum Java 7, update 51, is required to support the learning management system. The most current version of Java can be downloaded at: <u>JAVA web site</u> http://www.java.com/en/download/manual.jsp
- Current anti-virus software must be installed and kept up to date.

Running the browser check will ensure your internet browser is supported.

Pop-ups are allowed.

JavaScript is enabled.

Cookies are enabled.

- You will need some additional free software (plug-ins) for enhanced web browsing. Ensure that you download the free versions of the following software:
 - Adobe Reader https://get.adobe.com/reader/
 - o Adobe Flash Player (version 17 or later) https://get.adobe.com/flashplayer/
 - o Adobe Shockwave Player https://get.adobe.com/shockwave/
 - o Apple Quick Time http://www.apple.com/quicktime/download/
- At a minimum, you must have Microsoft Office 2013, 2010, 2007 or Open Office. Microsoft Office is the standard office productivity software utilized by faculty, students, and staff. Microsoft Word is the standard word processing software, Microsoft Excel is the standard spreadsheet software, and Microsoft PowerPoint is the standard presentation software. Copying and pasting, along with attaching/uploading documents for assignment submission, will also be required. If you do not have Microsoft Office, you can check with the bookstore to see if they have any student copies.

ACCESS AND NAVIGATION

You will need your campus-wide ID (CWID) and password to log into the course. If you do not know your CWID or have forgotten your password, contact the Center for IT Excellence (CITE) at 903.468.6000 or <a href="https://heps.com/hepsels/meta-needle-needl

Note: Personal computer and internet connection problems do not excuse the requirement to complete all course work in a timely and satisfactory manner. Each student needs to have a backup method to deal with these inevitable problems. These methods might include the



availability of a backup PC at home or work, the temporary use of a computer at a friend's home, the local library, office service companies, Starbucks, a TAMUC campus open computer lab, etc.

COMMUNICATION AND SUPPORT

Brightspace Support Need Help? Student Support

If you have any questions or are having difficulties with the course material, please contact your Instructor.

Technical Support

If you are having technical difficulty with any part of Brightspace, please contact Brightspace Technical Support at 1-877-325-7778 or click on the **Live Chat** or click on the words "click here" to submit an issue via email.



System Maintenance

Please note that on the 4th Sunday of each month there will be System Maintenance which means the system will not be available 12 pm-6 am CST.

Interaction with Instructor Statement

Communication with your professors is key to your professional growth. I am here to support and guide you along your academic journey. With that being said, I cannot help you if you do not communicate with me. Please make an appointment if you have any concerns or questions. Because I teach in different locations, email is the best way to reach me. I will attempt to answer all emails within 24 hours, Monday-Friday, but at times will need up to 72 hours to do so. When emailing, please use your university email and address me with courtesy and respect.

COURSE AND UNIVERSITY PROCEDURES/POLICIES

Course Specific Procedures/Policies

Written assignments are due on the day noted in the syllabus. All papers are due at the beginning of the class period. Late papers will have 10% deduction per day late from the final score.

Syllabus Change Policy

The syllabus is a guide. Circumstances and events, such as student progress, may make it necessary for the instructor to modify the syllabus during the semester. Any changes made to the syllabus will be announced in advance.



University Specific Procedures

Student Conduct

All students enrolled at the University shall follow the tenets of common decency and acceptable behavior conducive to a positive learning environment. The Code of Student Conduct is described in detail in the Student Guidebook.

 $\underline{http://www.tamuc.edu/Admissions/oneStopShop/undergraduateAdmissions/studentGuidebook.as}\\px$

Students should also consult the Rules of Netiquette for more information regarding how to interact with students in an online forum: Netiquette http://www.albion.com/netiquette/corerules.html

TAMUC Attendance

For more information about the attendance policy please visit the <u>Attendance</u> webpage and <u>Procedure 13.99.99.R0.01</u>.

http://www.tamuc.edu/admissions/registrar/generalInformation/attendance.aspx

http://www.tamuc.edu/aboutUs/policiesProceduresStandardsStatements/rulesProcedures/13students/academic/13.99.99.R0.01.pdf

Academic Integrity

Students at Texas A&M University-Commerce are expected to maintain high standards of integrity and honesty in all of their scholastic work. For more details and the definition of academic dishonesty see the following procedures:

<u>Undergraduate Academic Dishonesty 13.99.99.R0.03</u>

http://www.tamuc.edu/aboutUs/policiesProceduresStandardsStatements/rulesProcedures/13students/undergraduates/13.99.99.R0.03UndergraduateAcademicDishonesty.pdf

Graduate Student Academic Dishonesty 13.99.99.R0.10

http://www.tamuc.edu/aboutUs/policiesProceduresStandardsStatements/rulesProcedures/13students/graduate/13.99.99.R0.10GraduateStudentAcademicDishonesty.pdf



ADA Statement

Students with Disabilities

The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you have a disability requiring an accommodation, please contact:

Office of Student Disability Resources and Services

Texas A&M University-Commerce Gee Library- Room 162 Phone (903) 886-5150 or (903) 886-5835

Fax (903) 468-8148

Email: <u>studentdisabilityservices@tamuc.edu</u>

Website: Office of Student Disability Resources and Services

http://www.tamuc.edu/campusLife/campusServices/studentDisabilityResourcesAndServices/

Nondiscrimination Notice

Texas A&M University-Commerce will comply in the classroom, and in online courses, with all federal and state laws prohibiting discrimination and related retaliation on the basis of race, color, religion, sex, national origin, disability, age, genetic information or veteran status. Further, an environment free from discrimination on the basis of sexual orientation, gender identity, or gender expression will be maintained.

Campus Concealed Carry Statement

Texas Senate Bill - 11 (Government Code 411.2031, et al.) authorizes the carrying of a concealed handgun in Texas A&M University-Commerce buildings only by persons who have been issued and are in possession of a Texas License to Carry a Handgun. Qualified law enforcement officers or those who are otherwise authorized to carry a concealed handgun in the State of Texas are also permitted to do so. Pursuant to Penal Code (PC) 46.035 and A&M-Commerce Rule 34.06.02.R1, license holders may not carry a concealed handgun in restricted locations.

For a list of locations, please refer to the <u>Carrying Concealed Handguns On Campus</u> document and/or consult your event organizer.

Web url:

 $\underline{http://www.tamuc.edu/aboutUs/policiesProceduresStandardsStatements/rulesProcedures/34Safet} yOfEmployeesAndStudents/34.06.02.R1.pdf$



Pursuant to PC 46.035, the open carrying of handguns is prohibited on all A&M-Commerce campuses. Report violations to the University Police Department at 903-886-5868 or 9-1-1.

COURSE OUTLINE/CALENDAR

Date	Topic	CACREP	Readings	Assignments
		Standard(s)		
Week 1 8/25	-Introductions -Syllabus review -Course Overview	6.B.4.a	-Field (2018) Chapter 1: Introduction to statistics (Basic Concepts)Wester & Borders (2014) Research	
Virtual	and Expectations		competencies in counseling	
Class @	-Introduction to		-Hays (2011) Infusing qualitative	
8:15pm	Statistics Types of research		traditions	
via Zoom	-Types of research in counseling		-Trusty (2011) Quantitative articleswww.balkinresearchmethods.com –	
20011	(quantitative and qualitative research designs and research questions)		"Types of Research"	
Week 2 9/1	-Introduction to Statistics Cont. -Descriptive Statistics: Central Tendency and Dispersion		-Field (2018) Chapter 1: Introduction to statistics (Basic Concepts Cont.)Field (2018) Chapter 2: The SPINE of statistics (Central Tendency and Dispersion) -www.balkinresearchmethods.com - "Measures of Central Tendency" and "Measures of Variability"	Knowledge Quiz 1 (due in D2L by 9/6 @ 11:59pm)
Week 3	-Descriptive		-Field (2018) Chapter 2: The SPINE of	Knowledge Quiz
9/8 Virtual	Statistics -Z-scores -NHST: normal		statistics (descriptive statistics, Z-scores) -Field (2018) Chapter 3: The phoenix of statistics (NHST)	2 (due in D2L by 9/13 @ 11:59pm)
Class (a)	distribution		-www.balkinresearchmethods.com –	
8:15pm	distribution		"Standard Scores," "Raw scores,	
via			Standard Scores, Percentiles," and	
Zoom			"Understanding z-scores"	
Week 4 9/15	-Model assumptions -SPSS environment		-Field (2018) Chapter 4: The IBM SPSS statistical environment -Field (2018) Chapter 6: The beast of bias	Knowledge Quiz 3 (due in D2L by 9/20 @ 11:59pm)
Week 5 9/22	-NHST Cont.: <i>p</i> -value, type 1 and type II errors, and null and		-Field (2018) Chapter 2: The SPINE of statistics (Hypothesis Testing) -Field (2018) Chapter 3: The phoenix of	Knowledge Quiz 4 (due in D2L by 9/27 @ 11:59pm)
Virtual	alternative hypotheses		statistics (NHST)	. (), [)
Class @	31		-www.balkinresearchmethods.com -	
8:15pm	-Application		"Standard Scores," "Raw scores,	
via	assignment 1 releases		Standard Scores, Percentiles," and	
Zoom	in D2L		"Hypothesis Testing"	TZ 1 1 0 '
Week 6 9/29	-Effect size estimates -Confidence intervals		-Field (2018) Chapter 3: The phoenix of statistics (effect size) - Watson et al. (2016) Calculating and reporting estimates of effect size in counseling outcome research - Cohen (1992) A power primer	Knowledge Quiz 5 (due in D2L by 10/4 @ 11:59pm)



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Week 7	-Statistical power		-Field (2018) Chapter 2: The SPINE of	-Knowledge Quiz
10/6	(and type 1 and type		statistics (statistical power)	6 (due in D2L by
Virtual	2 error revisited)		-Balkin & Sheperis (2011) Evaluating	10/11 @ 11:59pm)
Class (a)			and reporting statistical power in	-Application
8:15pm			counseling research	Assignment 1 due
via			-www.balkinresearchmethods.com -	in D2L by 10/11
Zoom			"G*Power: Demonstration tutorial"	@ 11:59pm
Week 8	-Visual presentation		-Field (2018) Chapter 5: Exploring data	Knowledge Quiz
10/13	and inspection of data		with graphs	7 (due in D2L by
	(revisiting model		-Field (2018) Chapter 6: Beast of bias	10/18 @
	assumptions)		-www.balkinresearchmethods.com -	11:59pm)
	-Data cleaning		"Model Assumptions in ANOVA"	
Week 9	-t-test	6.B.4.a	-Field (2018) Chapter 10: Comparing two	
10/20	-experimental	6.B.4.b.	means	
	research questions		-Trusty (2011) Quantitative articles	
			-www.balkinresearchmethods.com -	
Wash 10	One were ANOVA	6 D A a	"SPSS tutorial: Independent t-test"	Vnoviladas O-i-
Week 10 10/27	-One-way ANOVA -experimental	6.B.4.a 6.B.4.b.	-Field (2018) Chapter 12: GLM 1: Comparing several independent means	Knowledge Quiz 8 (due in D2L by
10/2/	research questions	0.D.4.0.	-www.balkinresearchmethods.com –	11/1 @ 11:59pm)
Virtual	research questions		"ANOVA Theory" and "One-way	11/1 (@ 11.37piii)
Class (a)			ANOVA"	
8:15pm			-Trusty (2011) Quantitative articles	
via			211, 2000, (2011)	
Zoom			•••	
Week 11	-dependent <i>t</i> -test	6.B.4.a	-www.balkinresearchmethods.com -	
11/3	-pre-experimental	6.B.4.b.	"Dependent t-test" and "SPSS tutorial:	
	research questions		Dependent t-test and Cohen's d"	
			-Trusty (2011) Quantitative articles	
TT 1 10	D 111	(D)		
Week 12	-Repeated Measures ANOVA	6.B.4.a	-Field (2018) Chapter 15: GLM 4:	-Knowledge Quiz
11/10		6.B.4.b.	Repeated-measures designs	9 (due in D2L by
Virtual	-pre-experimental		-Trusty (2011) Quantitative articles	11/15 @ 11:59pm)
Class (a)	research questions			-Application
8:15pm			- <u>www.balkinresearchmethods.com</u> – "Repeated measures ANOVA"	Assignment 2 due
via			Repeated measures ANOVA	D2L by 11/15 @
Zoom				11:59pm
Week 13	-Correlations:	6.B.4.a	-Field (2018) Chapter 8: Correlation	Knowledge Quiz
11/17	Bivariate and	6.B.4.b.	-Field (2018) Chapter 9: The linear	10 (due in D2L by
	regression		model (regression)	11/22 @
Virtual	-correlation research		-Trusty (2011) Quantitative articles	11:59pm)
Class @	questions			
8:15pm				
via Zoom				
Week 14	No Class—		No Class—Thanksgiving break	No Class—
11/24	Thanksgiving break		Thomas Thumselving oreak	Thanksgiving
				break



Week 15	Virtual Class	Virtual Class Presentation	Virtual Class
12/1	Presentation		Presentation
Week 16	Virtual Class	Virtual Class Presentation	Virtual Class
12/8	Presentation		Presentation